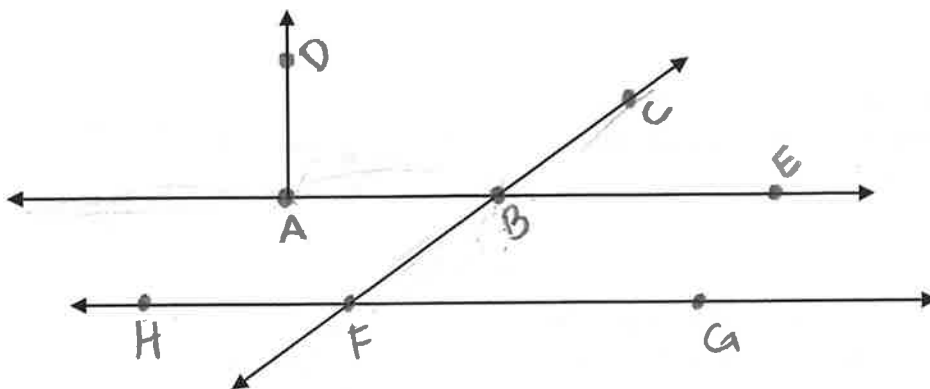


# Lesson 7-1 and 7-2 Notes

## Lines and Planes

Vocabulary Term	Definition	Example	Symbol
Point	A location in space. It has no size. You name a point with a capital letter.		Point A
Line	A series of points that extends in opposite directions without end.		$\overleftrightarrow{AB}$
Ray	A part of a line with exactly one endpoint.		$\overrightarrow{AB}$
Line segment	A part of a line. It has two endpoints.		$\overline{AB}$
Plane	A flat surface with no thickness. It contains many lines and extends without end in the direction of all its lines.		Plane ABCD
Intersecting lines	Two lines with exactly one point in common. <i>perpendicular lines</i>		$\overleftrightarrow{AB}$ intersects $\overleftrightarrow{CD}$
Parallel lines	Two lines that lie in the same plane and do not intersect.		$\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$
Skew lines	Lines that do not lie in the same plane, are not parallel and do not intersect.		

Labeling Points, Lines and More



Points A, B, C...

Line Segments  $\overline{AB}$ ,  $\overline{FB}$ ,  $\overline{HF}$

Lines  $\overleftrightarrow{BC}$ ,  $\overleftrightarrow{FG}$


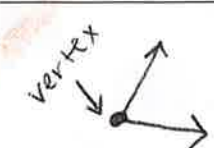




Rays  $\overrightarrow{AD}$

$\overleftrightarrow{AB}$  intersects  $\overleftrightarrow{FC}$

$\overline{FC}$  int.  $\overline{AE}$

$\overleftrightarrow{AB}$   $\parallel$   $\overleftrightarrow{HG}$

## Angles

Vocabulary Term	Definition	Example	Symbol
Angle	two rays with a common endpoint.		$\angle ABC$ $\angle D$ or $\angle b$
Vertex	the point of intersection of two sides of an angle.		
Acute Angle	an angle between $0^\circ$ to $90^\circ$		
Obtuse Angle	an angle between $90^\circ$ to $180^\circ$		
Right Angle	an angle that is $90^\circ$ (perfect square corner)		
Straight Angle	an angle that is $180^\circ$ (straight line)		

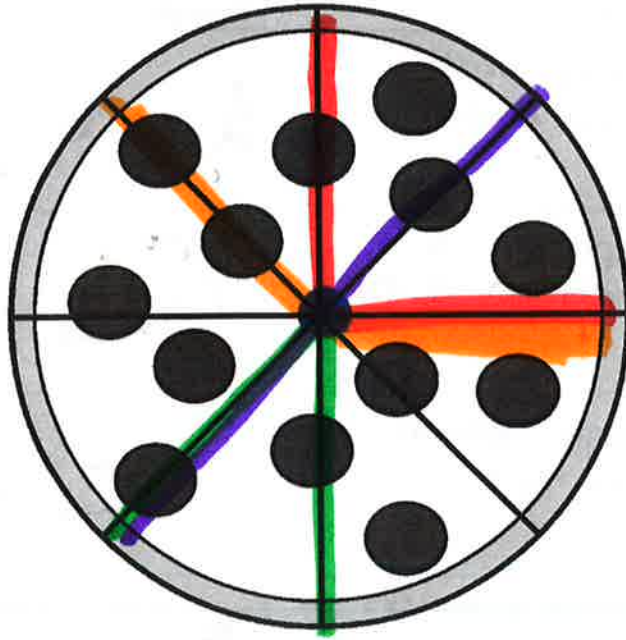
Tricks to help us remember:

Acute Angle: a cute little angle

Obtuse Angle: obese obtuse = big

Right Angle: \_\_\_\_\_


Straight Angle: straight line

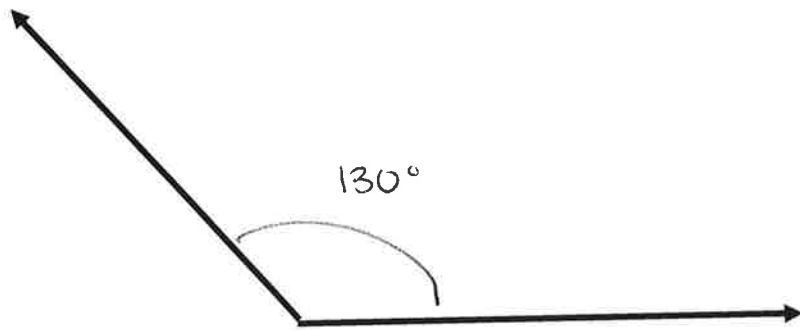


Find each of the following in the picture of the pizza above. Use the color indicated to trace the angle.

- 1) Find one ACUTE angle and trace it in GREEN.
- 2) Find one OBTUSE angle and trace it in ORANGE.
- 3) Find one RIGHT angle and trace it in RED.
- 4) Find one STRAIGHT angle and trace it in PURPLE.
- 5) Draw a dot at a VERTEX in BLUE.

# Measuring Angles

Step 1: Line up the vertex with the protractor 



Step 2: Line up bottom line on protractor with one side of angle

Step 3: Use the inner or outer scale to measure angle.

Step 4: Does the measurement make sense?

